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FROM NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER. SUBJECT: EVALUATION OF DELTA III TEST MISSION 1

1. IMAGE QUALITY: THE OVERALL IMAGE QUALITY OF THIS MISSION IS CY GOOD; HOWEVER, A VERY SLIGHT OUT OF FOCUS CONDITION IS APPARENT THROUGHOUT THE MISSION AT MAGNIFICATIONS ABOVE 35X. THE RESOLUTION

PAGE 2 RUEADJU 100 S E C R E T TARGET AT 2803N, 8036W (DISPLAYED FOR THIS MISSION) COULD NOT BE LOCATED ON THE BUOTOCRAPHY ALTHOUGH THE SCALE OF THE DILL PHOTOCRAPHY ON THE PHOTOGRAPHY. ALTHOUGH THE SCALE OF THE DIII PHOTOGRAPHY IS NOT AS LARGE AND THE LATERAL COVERAGE NOT AS WIDE AS THAT PROVIDED BY THE B CAMERA, THE INTERPRETABILITY OF THE MATERIAL IS GOOD. MORE DETAILED INFORMATION CAN BE OBTAINED FROM THE IMAGERY BECAUSE OF TINHERENT HIGHER RESOLUTION CAPABILITY AND HIGHER ENLARGEMENT CHARACTERISTICS (APPROXIMATELY 40X) OF THE 3404 MATERIAL. CLOUD COVERD
AND HAZE OBSCURE APPROXIMATELY ONE PERCENT OF THE ENTIRE MISSION. 2. MISSION DATA:

A. DELTA III TEST MISSION 1 WAS FLOWN ON 13 NOVEMBER 1968 WITH UNITS IT (AFT CAMERA) AND 18 (FWD CAMERA). THE FWD CAMERA LOOKS AFT.

B. FILM TYPE 3404 WAS USED FOR THE ENTIRE MISSION. PROCESSING WAS ACCOMPLISHED BY NAV RECON TECH SUPPCEN USING MX578 CHEMISTRY AT 11 FPM AND 91 DEGREES F. ORIGINAL NEGATIVE:

A. EXPOSURE: ADEQUATE THROUGHOUT FOR BOTH CAMERAS.

В. DENSITY AND CONTRAST: GENERALLY MEDIUM FOR BOTH CAMERAS DURING THE ENTIRE MISSION.

C. IMAGE DEGRADATIONS:

ADVANCE CY SANITIZED WITH TEXT

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PAGE 3 RUEADJU 100 S E C R E T (1) FWD CAMERA (18): A VERY DENSE LIGHT LEAK INDUCED SPLASH OF FOG, WHICH APPEARS APPROXIMATELY EVERY 48 INCHES IS APPARENT ON FRAMES ONE THROUGH NINE. THE DENSITY OF THESE PATTERNS DIMINISHES FROM FRAME ONE TO FROME NINE. FRAMES 1008 THROUGH 1013 CONTAIN FOG PATTERNS ASSOCIATED WITH CAMERA SHUT-DOWN. BANDING IS APPARENT FOR THE FIRST TWO INCHES AT THE TAKE UP END OF EACH FRAME OF THE MISSION. A MINUS DENSITY LINE PAR-ALLEL TO THE MAJOR AXIS OF THE FILM IS LOCATED 1.2 INCHES FROM THE UNTITLED EDGE. THE PROBABLE CAUSE IS FOREIGN MATTER IN THE SLIT APERTURE. SECONDARY IMAGES OF HIGHLY REFLECTIVE OBJECTS ARE

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IMAGED APPROXIMATELY Ø.5 INCH AFTER THE TRUE IMAGE THROUGH-OUT THE MISSION. THIS IS APPARENTLY THE RESULT OF THE IMAGE FORMING LIGHT, REFLECTING OFF THE EDGE OF THE SLIT. IN SOME INSTANCES THESE SECONDARY IMAGES DEGRADE THE IMAGERY.

INSTANCES THESE SECONDARY IMAGES DEGRADE THE IMAGERY.

(2) AFT CAMERA (17): TWO SEPARATE LIGHT LEAK INDUCED FOG PATTERNS ARE APPARENT AT THE BEGINNING OF THE MISSION. THE FIRST IS A VERY DENSE SPLASH OF FOG WHICH APPEARS APPROXIMATELY EVERY 48 INCHES ON THE FIRST NINE FRAMES AND CORRESPONDS TO THE PATTERN NOTED ON THE FWD CAMERA. THE SECOND PATTERN IS OF MODERATE DENSITY AND AFFECTS APPROXIMATELY TWO THIRDS OF THE ENTIRE FILM

PAGE 4 RUEADJU 100 S E C R E T
WEB, EMINATING FROM THE NON TITLED EDGE TOWARD CENTER FORMAT. THE
REMAINING ONE THIRD OF THE FILM WEB ALSO IS AFFECTED BUT TO A LESSER
DEGREE. THIS PATTERN IS MOST NOTICABLE ON THE FIRST 41 FRAMES,
HOWEVER, A DENSITY DIFFERENCE CAN BE DETECTED IN THE BORDER AREAS
AS LATE AS FRAME 180. BOTH OF THESE LIGHT LEAKS HAVE A DEGRADING
EFFECT ON THE IMAGERY. BANDING IS APPARENT FOR THE FIRST TWO INCHES
AT THE TAKE UP END OF EACH FRAME OF THE MISSION. FRAMES 996 THRU
1012 CONTAIN FOG PATTERNS ASSOCIATED WITH CAMERA SHUT DOWN.
A MINUS DENSITY LINE PARALLEL TO THE MAJOR AXIS AND LOCATED
0.4 INCHES FROM THE UNTITLED EDGE IS PRESENT THROUGHOUT THE
MISSION. THE PROBABLE CAUSE IS FOREIGN MATTER IN THE SLIT
APERTURE. THE SECONDARY IMAGES MENTIONED FOR THE FORWARD
CAMERA ARE PRESENT IN THIS UNIT ALSO. IN SOME CASES THE
SECONDARY IMAGES DEGRADE THE PRIMARY IMAGERY.

D. PHYSICAL DEGRADATIONS: RAIL SCRATCHES ARE PRESENT IN THE BORDER AREAS, ALONG THE MAJOR AXIS, OF THE FILM FROM BOTH CAMERAS. SEVEN HEAT SPLICES ARE PRESENT IN THE MISSION MATERIAL OF BOTH CAMERAS.

E. AUXILIARY DATA: THE FREQUENCY MARKS AND TIME WORDS WERE NOT IMAGED ON EITHER CAMERA RECORD. THE FRAME COUNTER AND SERIAL NUMBER

PAGE 5 RUEADJU 100 S E C R E T FUNCTIONED PROPERLY.

F. OTHER:

- (1) FWD CAMERA (18): THE FRAME COUNTER READS 36 FOR THE TITLED FRAME 001. THE LAST TITLED FRAME IS 1013, FRAME COUNTER 1048.
- (2) AFT CAMERA (17): THE FRAME COUNTER READS 45 FOR THE TITLED FRAME 009 (THE FIRST TITLED FRAME). THE PROCESSING FACILITY TITLED THIS MATERIAL IN THIS MANNER SO THAT THE TITLED FRAMES AND FRAME COUNTERS WOULD CORRELATE FOR BOTH CAMERAS. LAST TITLED FRAME IS 1012, FRAME COUNTER 1047.

 4. POSITIVES:
- A. PRINTING AND PROCESSING ARE GOOD.

SECRET

END OF MESSAGE